

Appendix Table 1. Prospective annual weight change rate by quartiles of urinary bisphenol A and phthalates metabolite concentrations by age at baseline.

Chemical	Quartile	Median concentration (nmol/L)	Weight change rate (kg/yr)	
			Age ≤ 53	Age > 53
BPA	Q1	3.61	0.00 (Reference)	0.00 (Reference)
	Q2	6.40	0.05 (-0.21 to 0.31)	0.16 (-0.03 to 0.35)
	Q3	10.53	0.06 (-0.19 to 0.31)	0.09 (-0.12 to 0.30)
	Q4	21.91	0.11 (-0.14 to 0.37)	0.09 (-0.11 to 0.29)
	P-trend ⁴		0.41	0.64
Phthalic acid	Q1	212	0.00 (Reference)	0.00 (Reference)
	Q2	369	0.20 (-0.05 to 0.45)	0.04 (-0.20 to 0.28)
	Q3	641	0.21 (-0.04 to 0.46)	0.10 (-0.14 to 0.35)
	Q4	1326	0.28 (0.04 to 0.52)	0.13 (-0.14 to 0.40)
	P-trend		0.06	0.32
MEP	Q1	88	0.00 (Reference)	0.00 (Reference)
	Q2	321	-0.16 (-0.42 to 0.09)	0.09 (-0.11 to 0.28)
	Q3	725	0.02 (-0.23 to 0.26)	0.09 (-0.11 to 0.30)
	Q4	2198	0.00 (-0.25 to 0.25)	0.04 (-0.16 to 0.24)
	P-trend		0.54	0.94
MBzP	Q1	20	0.00 (Reference)	0.00 (Reference)
	Q2	47	0.28 (-0.03 to 0.60)	0.11 (-0.07 to 0.29)
	Q3	90	0.30 (-0.01 to 0.60)	0.07 (-0.13 to 0.27)
	Q4	252	0.27 (-0.04 to 0.57)	0.26 (0.03 to 0.50)
	P-trend		0.57	0.04
Sum butyl phthalates ¹	Q1	67	0.00 (Reference)	0.00 (Reference)
	Q2	140	-0.09 (-0.40 to 0.21)	0.05 (-0.13 to 0.23)
	Q3	249	-0.07 (-0.36 to 0.23)	-0.02 (-0.22 to 0.19)
	Q4	481	0.03 (-0.26 to 0.32)	0.19 (-0.04 to 0.42)
	P-trend		0.41	0.16
DEHP metabolites ²	Q1	115	0.00 (Reference)	0.00 (Reference)
	Q2	204	0.06 (-0.21 to 0.32)	-0.04 (-0.23 to 0.15)
	Q3	353	0.12 (-0.13 to 0.37)	0.25 (0.04 to 0.46)
	Q4	870	-0.13 (-0.39 to 0.13)	0.10 (-0.09 to 0.30)
	P-trend		0.12	0.21
Total phthalates ³	Q1	500	0.00 (Reference)	0.00 (Reference)
	Q2	962	0.02 (-0.24 to 0.28)	0.08 (-0.12 to 0.27)
	Q3	1688	0.10 (-0.15 to 0.35)	0.11 (-0.08 to 0.31)
	Q4	4094	0.08 (-0.17 to 0.34)	0.10 (-0.11 to 0.31)
	P-trend		0.55	0.41

Conversion factor: BPA (nmol/L) × 0.228 = BPA (µg/L).

Numbers are adjusted prospective weight change rate (kg/year) and 95% CI, relative to the rate of individuals in the 1st quartile.

Model adjusted for urinary creatinine concentration, cohort origin, age, smoking, physical activity, alcohol consumption, AHEI, total energy intake, and baseline body weight.

¹ Include MBP and MiBP.

² Include MEHP, MEHHP, MCEPP, and MEOHP.

³ Include MEP, MBzP, MBP, MiBP, MEHP, MEHHP, MCEPP, and MEOHP.

⁴ P values for linear trend were obtained by examining an interaction term between follow-up duration and median concentration of the quartiles in the mixed-effects models.

Acronyms: BPA, bisphenol A; MEP, monoethyl phthalate; MBzP, monobenzyl phthalate; DEHP, di-2-ethylhexyl phthalate.

Appendix Table 2. Prospective annual weight change rate by quartiles of urinary bisphenol A and phthalates metabolite concentrations by baseline BMI.

Chemical	Quartile	Median concentration (nmol/L)	Weight change rate (kg/yr)	
			Baseline BMI < 25	Baseline BMI ≥ 25
BPA	Q1	3.61	0.00 (Reference)	0.00 (Reference)
	Q2	6.40	0.17 (-0.01 to 0.35)	0.17 (-0.11 to 0.45)
	Q3	10.53	0.19 (0.01 to 0.37)	0.22 (-0.08 to 0.51)
	Q4	21.91	0.24 (0.06 to 0.43)	0.17 (-0.12 to 0.46)
	P-trend ⁴		0.03	0.40
Phthalic acid	Q1	212	0.00 (Reference)	0.00 (Reference)
	Q2	369	0.10 (-0.10 to 0.31)	0.30 (-0.03 to 0.63)
	Q3	641	0.12 (-0.08 to 0.32)	0.35 (0.01 to 0.69)
	Q4	1326	0.21 (0.01 to 0.42)	0.50 (0.17 to 0.82)
	P-trend		0.06	0.01
MEP	Q1	88	0.00 (Reference)	0.00 (Reference)
	Q2	321	-0.16 (-0.34 to 0.02)	0.18 (-0.12 to 0.48)
	Q3	725	-0.09 (-0.29 to 0.10)	0.38 (0.10 to 0.65)
	Q4	2198	-0.05 (-0.24 to 0.13)	0.26 (-0.03 to 0.56)
	P-trend		0.81	0.20
MBzP	Q1	20	0.00 (Reference)	0.00 (Reference)
	Q2	47	0.13 (-0.05 to 0.31)	0.54 (0.26 to 0.81)
	Q3	90	0.25 (0.06 to 0.44)	0.56 (0.29 to 0.82)
	Q4	252	0.28 (0.10 to 0.47)	0.71 (0.42 to 1.00)
	P-trend		0.006	0.0001
Sum butyl phthalates ¹	Q1	67	0.00 (Reference)	0.00 (Reference)
	Q2	140	0.14 (-0.05 to 0.33)	0.17 (-0.09 to 0.43)
	Q3	249	0.15 (-0.04 to 0.33)	0.32 (0.04 to 0.60)
	Q4	481	0.22 (0.04 to 0.41)	0.60 (0.31 to 0.89)
	P-trend		0.03	<0.0001
DEHP metabolites ²	Q1	115	0.00 (Reference)	0.00 (Reference)
	Q2	204	0.10 (-0.08 to 0.29)	0.03 (-0.25 to 0.32)
	Q3	353	0.14 (-0.04 to 0.33)	0.51 (0.23 to 0.80)
	Q4	870	0.05 (-0.14 to 0.25)	0.06 (-0.22 to 0.34)
	P-trend		0.95	0.92
Total phthalates ³	Q1	500	0.00 (Reference)	0.00 (Reference)
	Q2	962	-0.03 (-0.22 to 0.15)	0.28 (-0.01 to 0.57)
	Q3	1688	-0.05 (-0.24 to 0.14)	0.48 (0.20 to 0.75)
	Q4	4094	0.07 (-0.12 to 0.26)	0.36 (0.07 to 0.65)
	P-trend		0.29	0.06

Conversion factor: BPA (nmol/L) × 0.228 = BPA (µg/L).

Numbers are adjusted prospective weight change rate (kg/year) and 95% CI, relative to the rate of individuals in the 1st quartile.

Model adjusted for urinary creatinine concentration, cohort origin, age, smoking, physical activity, alcohol consumption, AHEI, total energy intake, and baseline body weight.

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⁴ P values for linear trend were obtained by examining an interaction term between follow-up duration and median concentration of the quartiles in the mixed-effects models.

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